Technical Data Sheet

Effective: 24/07/2020 Supersedes: 01/01/2000

Automotive Aftermarket Division

3M™ Accuspray™ HGP Spray Gun System and 3M™ PPS™ Type H/O Pressure Cup

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1) Part Number

16587	3M™ Accuspray™ HGP Spray Gun Kit
16612	3M™ Accuspray™ Atomizing Heads, Orange, 1.4 mm
16611	3M™ Accuspray™ Atomizing Heads, Transparent, 1.8 mm, PN16611
16609	3M™ Accuspray™ Atomizing Heads, Red, 2.0 mm, PN16609
16124	3M™ PPS™ Type H/O Pressure Cup, Large, 828 ml
16121	3M™ PPS™ Type H/O Pressure Cup, Mini, 177 ml
26614	3M™ Accuspray™ Atomizing Head for PPS™ Series 2.0, 1.4 mm, Orange
26618	3M™ Accuspray™ Atomizing Head for PPS™ Series 2.0, 1.8 mm, Clear
26620	3M™ Accuspray™ Atomizing Head for PPS™ Series 2.0, 2.0 mm, Red
26124	3M™ PPS™ Series 2.0 H/O Pressure Cup, Standard, 650 ml
26121	3M™ PPS™ Series 2.0 H/O Pressure Cup, Midi, 400 ml

2) Description and end uses

A HVLP gravity pressurised spray gun, to be used with a pressurised H/O cup system to provide superior application of high viscosity coatings.
The innovative replaceable 3M™ Accuspray™ Atomizing Heads allow for increased productivity, reduction in coating consumption and maximize the benefits of the 3M™ PPS™ System or 3M™ PPS™ Series 2.0 System.
Used with the 3M™ PPS™ Type H/O Pressure Cup (High Output) and any of the available heads, a large variety of patterns and textures can be achieved, ideal for application of functional coatings and matching OEM appearance.

- Provides the equivalent of a brand-new pressurized spray gun on demand for a fraction of the cost
- Reduces gun cleaning time
- Improves productivity and profitability

3M™ PPS™ Type H/O (High Output) Pressure Cup is a pressurized hard cup and collar that supports and holds the disposable 3M™ PPS™ Lids & Liners.
3M™ PPS™ Type H/O Pressure Cup is designed for high viscosity, thick liquid materials. Its primary use is for high viscosity liquid materials (such as protective

coatings) that require pressure assistance in a gravity filled delivery system that provides the PPS™ benefits.

- Use to support PPS™ Series 1.0 or 2.0 lids & liners for the matching 3M™ PPS™ Type H/O Pressure Cup System
- Achieve various coating textures easily
- Profit from the benefits of the PPS System for protective coatings
- Great for a variety of materials from liquid to highly viscous (thick)
- Can be used with other manufacturers pressure spray guns

3) Physical Properties

Element – HGP Spray Gun	Material of construction
Body	Composite
Trigger	Steel, plating, bright nickel chrome
Fluid Needle	Stainless Steel
Control Knobs	Stainless Steel
Air inlet	Stainless Steel
Air flow control valve	Various, Stainless Steel connector
Nozzle	Polypropylene

Element – H/O Pressure Cup	Material of construction
Cup	Polyamide
Shroud	Nylon
Hose	Silicone Rubber

4) Directions for Use

Please refer to the 3M™ Accuspray™ Spray Gun Kit HGP Pressurised Spray Gun Owners Manual and the 3M™ High output pressure cup owners manual for detailed directions for use.

1. Attach the air regulator to the Accuspray™ HGP gun. Two spanners should be used to ensure the connector is securely fastened.

2. Choose your 3M™ Accuspray Atomising Head / Nozzle based on the finish you want to achieve.

    - 1.4mm Atomising Head / Nozzle for Flat / Fine Coatings.
    - 1.8mm Atomising Head / Nozzle for Flat and Medium Textured Coatings.

- 2.0mm Atomising Head / Nozzle for Medium and Heavy Textured Coatings.

Pull the trigger back on the gun and hold. Put the nozzle in place and ensure the release buttons are aligned with the latch openings.

The double click signals that the nozzle is fully engaged.

3. Place the PPS™ liner in the PPS™ H/O pressure cup and pour the required amount of coating into the liner. Once the liner is filled, pull the filter tab and remove it from the PPS™ lid. Attach the lid to the liner and push it into place to ensure it's secure. Screw the black PPS™ collar onto the PPS™ pressure cup / quarter-turn lock the lid for PPS™ Series 2.0.

4. Connect the flexible pressure hose to the Accuspray™ HGP gun body side and then connect the air line to the regulator. Set the air pressure to 20 psi (1.4 bar) when the trigger is pulled and adjust the fan control from closed to open by making a 1/4 to 1/2 turn. The gun is now ready to use.

The 3M™ Accuspray™ Pressurised HGP Spray Gun offers outstanding control over texture build. Adjust the gun settings to get the texture you want.

To increase the heaviness of the texture, angle the gun 45 degrees to the workpiece and spray left to right. You may also want to reduce the air pressure.

Cleaning and Maintenance:

Note: Do Not Put in Gun Washer. Read, understand and follow all safety statements as well as wear appropriate, approved personal protective equipment per the applicable SDS and material container labels for cleaning solutions. Do not use metal tools to clean the air cap holes as this may scratch them; scratches can distort the spray pattern.
Periodically, lubricate moving components such as the fluid needle, fan adjustment threads, fluid needle adjustment threads and spring.

1. Disconnect the air line, hold the gun upside down, pull back the trigger and release the fluid back into the cup.
2. Remove the air line and the PPS™ Cup. If required, use the sealing cap to store for further use.
3. With an appropriate solvent (or water for Waterbased Coatings), flush out the Accuspray™ atomising head / nozzle so it is clear of coating. Do not immerse the spray gun in solvent. Do not point the spray gun up while cleaning it.
4. Once you're satisfied that the nozzle is completely clean, pull the trigger back and take the nozzle straight out from the gun body. Remove the nozzle in this way to avoid bending the fluid needle.

5. Wipe the needle clean and inspect the nozzle for damage. If the nozzle is broken or worn, please dispose and use a new nozzle. If the nozzle is fine, it can be reattached and used on your next application.

Troubleshooting

Problem	Cause	Remedy
Poor Spray Pattern	Air cap or fluid tip clogged	Replace atomizing head
	Bent fluid needle	Replace fluid needle
Heavy Middle Pattern	Not enough atomizing pressure.	Increase atomizing pressure.
	Too much fluid flowing from PPS cup.	Reduce fluid flow by turning fluid adjustment knob clockwise (CW)
Intermittent Pulsating Spray	Low fluid in cup	Add fluid
Insufficient / No Paint Flow	Clogged fluid tip	Replace atomizing head
	Loss of air pressure	Check air source
	Empty 3M™ PPS™ cup	Add fluid
	Clogged air passage	Replace atomizing head
Overspray is Excessive	Gun too far from target	6-8 inches (150-200 mm) is ideal
	Too much atomizing air for coating being sprayed	Reduce atomizing air
Coating Leak	Damaged/worn atomizing head	Replace atomizing head
	Fluid needle not closing	Ensure fluid needle spring is in place
		Clean fluid needle with appropriate solvent

5) Storage

Ensure the product is stored in a clean, dry and dust free environment.

6) Safety

Please refer to the 3M™ Accuspray™ Spray Gun Kit HGP Pressurized Spray Gun Owners Manual for detailed safety statements.

Note: Prior to painting, users are expected to be appropriately grounded (by either shoes or heel straps) and should wear static-dissipative or static-conductive gloves.

3M™ Accuspray™ Spray Gun Kit HGP is designed FOR PROFESSIONAL INDUSTRIAL USE ONLY.

7) Disclaimer

All statements, technical information and recommendations are based on tests we believe to be reliable as at the date of hereof, but the accuracy or completeness thereof is not guaranteed. Please ensure before using the product that it is suitable for your intended use. Since the conditions and methods of use of the product and of the information referred to herein are beyond our control, other than for fraudulent misrepresentation, 3M expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

For Additional Health and Safety Information

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